

Data evaluation memo

Date of evaluation: 7/20/2016

Person evaluating data: Erin S. McCoy, RPM

Site: Des Moines TCE Site

Laboratory: Pace Analytical Services, Inc. (Pace), Lenexa, KS 66219

SDG Number: 60221226

Number of samples: 12

Analytical method: SW846 1613B

National Functional Guidelines document used for evaluation: National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review, September 2011.

The above referenced SDG was evaluated to determine if samples were analyzed as specified by the Quality Assurance Project Plan (QAPP) for the project. The following were reviewed:

- ☐ Sample temperature at the time of lab receipt
- ☐ Hold times
- ☐ Blank contamination
- ☐ Laboratory spike and sample recoveries are within acceptable limits
- ☐ Laboratory narrative

Based on the review of the data, the data is acceptable with qualification. Further detail is below:

Sample temperature at the time of lab receipt – Samples were received at ~0.7-0.8 degrees Celsius, which is within the acceptable temperature between freezing and 6 degrees Celsius.

Hold times – Samples were collected on 6/8-9/2016. Samples were received on 6/10/16. Samples were extracted on 6/15/16. All samples were analyzed between 6/18-19/16. Samples were analyzed within the 40 day hold time window specified by Pace for the method used.

Blank contamination – Method blanks were included in the SDG. No chemicals were detected in the blank sample. No field or rinsate blanks were included with this SDG.

Laboratory spike and sample recoveries are within acceptable limits – As shown on page 23 of the SDG, all LCS recoveries were within acceptable limits.

Laboratory narrative – Only one detection was qualified as interference present “I”. This was because interfering substances impacted the determinations of PCDD congeners. The qualifier was changed to estimated “J” for one sample:

- ☐ SB-02 (0-2), 60221226002, 1,2,3,7,8,9-HxCDD

Concentrations below the calibration range were qualified as estimated “J”. One reported concentration was above the calibration range and was qualified as exceeds calibration range “E”. The qualifier was changed to estimated “J” for one sample:

- ☐ SB-06 (0-2), 60221226006, OCDD

No further qualification is necessary.